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Developing a Culture of Preparedness in Education

Kananura Elly Barya

Faculty of Education Kampala International University Uganda
kananuraelly@kiu.ac.ug

ABSTRACT

Preparedness in education is no longer a peripheral concern but a core responsibility of educational institutions seeking to ensure the safety, continuity, and resilience of learning communities. This paper examines the concept of a "culture of preparedness" through a multi-disciplinary lens that draws from public pedagogy, disaster risk reduction, and institutional planning. It highlights the historical evolution of preparedness in schools, the challenges and opportunities of embedding preparedness into educational frameworks, and the key components risk assessment, stakeholder training, curriculum integration, and community partnerships necessary for a sustainable preparedness culture. Emphasizing inclusivity, critical engagement, and context-based planning, the study proposes that preparedness is not merely a technical solution but a transformative pedagogical practice that empowers both institutions and individuals. The paper concludes with recommendations for policymakers, educators, and community leaders to collaboratively build preparedness frameworks that are proactive, participatory, and adaptable to future crises.

Keywords: Preparedness culture, public pedagogy, disaster education, school safety, risk management, curriculum integration, emergency planning.

INTRODUCTION

Drawing from public pedagogy literature, this text argues for a reciprocal aspect of 'preparedness' that can cultivate an 'active' and 'critical' preparedness culture in societies. It highlights various responses to disasters, emphasizing the importance of disaster preparedness. Both 'disaster preparedness' and 'public pedagogy' are broadly defined and applied. Preparedness practices involve various entities like governments and communities, aiming to mitigate risks and damages during disasters. These practices encompass warnings, operations, curricula, and information disseminated through media. While preparedness is examined in fields like civil engineering, public health, and psychology, disaster preparedness education is developing as a sub-discipline. It often intersects with risk and safety education and addresses learning objectives, age groups, and methodologies. The growing recognition of preparedness education calls for its integration into public pedagogy literature. Preparedness is shaped by public policy and actively involves the public. This text argues that an inclusive pedagogical aspect of 'preparedness' fosters a culture of preparedness. It discusses the relationship between disasters and education, focusing on the educational relevance of disasters and the lessons they impart. The complexities of 'disasters', 'preparation', and 'preparedness' in relation to education are outlined. It examines how the public's role is conceived in preparedness and positions preparedness education within 'public pedagogy'. Acknowledging that disasters arise from social processes, it emphasizes assessing hazards based on their effects on vulnerable groups [1, 2].

The Importance of Preparedness

Emergency preparedness is increasingly recognized as essential by leaders across sectors, including education. Following 9/11, a comprehensive plan was created for national, regional, and local preparedness against potential emergencies, generating significant awareness about hazards and terrorism. Education is viewed as key to enhancing readiness. Schools and higher education institutions are now focusing on effective emergency planning and response. However, creating solid plans is only part of the effort; fostering a culture of preparedness among stakeholders is crucial. This culture aims to ensure awareness, training, and continuity plans are in place among local government, faculty, staff, and

students. Each group offers distinct viewpoints on developing a preparedness culture and achieving this goal. Synthesizing these perspectives and creating a coherent plan can enable collaboration among stakeholders. Developing a preparedness culture in education is a complex task due to numerous stakeholders involved. Thus, a literature review is needed to assess the current state of preparedness in educational institutions. This review aims to identify components of the preparedness culture, outline necessary actions to align with community standards without overburdening resources, and recognize actors linked with each component. Insights from literature on emergency preparedness across fields like public health, emergency management, education, and psychology underline the importance of community involvement in preparedness efforts. Findings from a thorough survey of faculty opinions highlight key elements necessary for progress in establishing a preparedness culture in education [3, 4].

Historical Context of Preparedness in Schools

The historical context of preparedness in American schools is relatively narrow. School preparedness for a disaster is more thoroughly chronicled beginning in the early decades of the twenty-first century. In the United States, most educational efforts focused on fire preparedness, often by practicing drills to exit the school when a fire alarm was sounded. In many other parts of the world, efforts had been underway for centuries to provide society with knowledge about disaster and how to manage hazard and risk. Until the late twentieth century, such discussions generally did not take place in school settings. This discussion is limited to one disaster: the preparedness for and joining in of a society's management of hazardous consequences. There are discussions in the United States about "resilience" in schools, but these discussions are usually limited to the discussions about climate change and the need for investment in school facilities. Resilience is a word that is used to describe attributes of societies or school's planning or responses. The argument is that "better preparedness" leads to "better resilience" in a society's or school's sustained capacity to minimize harmful consequence. Of paramount interest, however, is the social construction of this notion of preparedness. Some attributes of society, organization, or nation become regimented as a preparedness capability, and some do not [5, 6].

Key Components of a Preparedness Culture

An all-hazards mitigation approach offers a standardized way in which public safety officials, educators, parents, and community leaders can collaborate on the seamless safety, security and preparedness of the students. Increasing communication, collaboration and partnerships among internal and external stakeholders is paramount to a successful implementation. Higher education leaders should assess preparedness and response capability, work from the community upwards develops initial capabilities, and implement plans. Efforts should involve representatives from across campus and reach into local, state and federal partners. Organizations wishing to develop a culture of preparedness should implement seven key components of organizational change – environmental assessment, organization-wide systems, group approach, results-oriented framework, awareness and education, assessment, feedback and improvement. Higher education is characterized by diverse populations, services and operations. As such, individual campuses often require customized approaches or specific capabilities to effectively prepare for and adapt to the diverse threats they face. In concert with the need for customized solutions is the need for standardized frameworks to assess risks and determine preparedness capability against relevant threats. Groups and communities of higher education institutions benefit from collaborative and cohesive partnerships that allow them to size up the most critical challenges and pool resources to address them effectively. Campus safety maximization involves a multi-part action plan with preventive, deterrent and reactive measures. Critical infrastructure protection includes the major transportation routes, utility systems, communications networks and water resources of a community. The preparedness culture of a community is informed by rules and protocols, research studies, state and federal policies, joint trainings and exercises, and the results of outside assessments. Persistence of these cultural components helps determine the community's ability to prepare for and respond to future challenges. A higher education institution's safety, security and preparedness culture is a reflection of the norms and values of applicable local, state and federal laws and guidelines; relevant policy and practice; and the passage of time [7, 8].

Risk Assessment and Management

Risk assessment and management are essential components of any well-controlled safety, security, and health system. Risk, according to the National Academy of Sciences, is defined as "the odds of an event occurring multiplied by the consequences of that event." The recognized sources of risk or hazards in institutions of higher learning are physical, natural, human, equipment, environmental, and socio-economic. A risk assessment examines sources of risk, compounded rates of errors, potential impacts on life and property, and the ability of the institution to respond to prevent or mitigate the impact of the event. Generic risk assessment methodologies or models may be used for schools and other large venues,

but most higher education institutions have unique facilities and programs that require tailored risk assessment models. Nevertheless, the faculty and academic staff are often experts in developing or adapting models that would meet the unique situation in each institution of higher learning. These models should be adopted or adapted through shared governance by the faculty who would ultimately be managing the systems and handling any incidents that may occur. A draft of the risk assessment can then be discussed publicly with the faculty, staff, administrators, and students before a finalized assessment is presented for approval. Such a process and structure lead to much more comprehensive and thorough risk assessment and management plans than are typically developed or implemented in a top-down approach by central security or facilities management. The mission of higher education is not just delivering knowledge in a classroom, posting lectures online or publishing research. Higher education needs to engage and educate the minds and imaginations of students by presenting new ideas and opportunities for critical thinking and problem solving. Safety, security, and health should be considered along with pedagogy, technology, resources, and policy during curriculum development. Such an inclusive planning process recognizes the importance of an established comprehensive culture of safety, security, and health in higher education. Lowering the risk of tragedy inevitably results in raising the culture of preparedness. Learning from past incidents like the 2007 Virginia Tech shooting tragedy, safety, security, and health must become an integral part of the mission of higher education [9, 10].

Emergency Response Planning

Emergency response planning, or Action Planning, focuses on it. The primary objective of this workshop is to create a litmus test or a way of understanding how prepared people feel about the coordination of their communities as they respond to and survive emergent situations. Understanding this involves developing guidelines that can be cross-referenced with the day-to-day practices in schools; conducting a lower-stakes community-based simulation exercise that can assess actions taken by a much larger coalition of public service organizations over a much broader footprint; and partnering with biomedical and social scientists devoted to understanding and modeling endpoint construction of a way 'of knowing' that targets how and what needs to be done if an emergent and disastrous state arises. To address these objectives, the workshop format will include full-class instruction interspersed with small-group work. First, it is necessary to review essential Action Planning topics like, but not limited to, the coherent flow of information leading to rhyme verification and the assessment of evacuations. From there, teams of students will use the Action Plans to codify these models and processes to design a simulation exercise that can assess the procedures for their Action Plan. Finally, each team will deliver its simulation model to the whole class for feedback and assessment. This work is preparatory for the field assessment of their Action Plans. The simple reasoning behind "emergency response planning" is that there are ongoing investigations in some areas. If municipalities and school districts have already developed plans, it is important to evaluate how and where it is at. If they do not, planning must begin taking one or many steps to start developing a solution process. Since Action Planning efforts will happen simultaneously, integrated and adaptive planning will evolve from this stage. The proposals in advance will be how to assess the desired planning state, how to measure success (and failure) of these efforts. To facilitate this, the workshop will begin with a primer for the "package" (deployment module, analysis tools, and ways of knowing) [11, 12].

Integrating Preparedness into Curriculum

Preparedness and disaster management should be carefully and thoroughly considered topics addressed in school curricula. Preparedness education should start at an early age, and simple techniques such as "drop, cover, and hold on" during an earthquake can be taught early. At the same time, a real understanding of this readiness is needed. Internally displaced populations can highlight the natural and induced circumstances of a situation as well as basic human rights. Schools must ensure that all facilities, both in and when accommodating, are satisfactory for human dignity. Educators should be aware of the various current and historical disasters, both in terms of risk and impact. A schedule of discussions about recent disasters and those that occur globally should ensure timely and relevant education. At present, there will be many repetitions of disaster education that could unify school communities, and schools should take an active role in creating a culture of preparedness. Be the expert. Review the information sources available and ensure that you have a good grounding in a situation. For those working long term in a country that receives refugees, it is vital to learn about the area's hazard history and possible geo-hazards. Preventing options and solutions from being incorporated into later direct plan/strategy proposals and other mitigation ideas is crucial. Proposals built from this solid understanding can later form part of resilience fund prescriptive papers and negotiations with cities on improving urban resilience. These proposals can leverage existing standards, guidelines, and international and partner organizations, and participate in global resilience or sustainable cities initiatives. Global standards and

guidelines provide technical basis to leverage international and national local resources as well as community involvement, awareness, and education. There remains an opportunity to incorporate these standards/guidelines into preparation and future plan writing for either in-camp sites or local volunteer initiatives. Local governing authorities can be encouraged to adopt applicable codes, standards, and guidelines for new build as well as existing structures [13, 14].

Training Staff and Students

Schools are integral to community safety and must be prepared for emergencies. Collaboration among parents, schools, and communities is essential for developing and regularly practicing emergency plans. Stress and panic can disrupt response efforts during actual emergencies, even in cases where drills had been practiced successfully. It's crucial for parents and guardians to understand how schools plan for emergencies, including communication protocols and who will provide updates. Establishing a clear chain of command allows teaching staff to focus on education while designated personnel manage public communications. Administrators must support and draft policies with timelines, while an emergency sub-committee consisting of school staff, local law enforcement, and medical personnel should create comprehensive plans. Important elements include threat assessments, communication strategies, training protocols, and procedural guidelines. The school board should ratify these plans and oversee revisions and training. Regular testing of the plan—through scheduling, practicing, and evaluation—ensures preparedness. Training for secretaries, staff, and students further enhances safety, addressing both overt and covert security measures [15, 16].

Building Community Partnerships

Community partnerships are essential to creating a comprehensive culture of preparedness. Schools operate in a larger social context, affecting how they plan for and recover from disasters. Building strong school-community partnerships increases preparedness resiliency, helping ensure that community resources become parts of the extended school team in times of crisis. When communities support their schools and involve them in community issues, schools are more likely to receive timely assistance in an emergency, whether through organized relief efforts or offers from local businesses to donate supplies. Linking schools with parent volunteers creates an active school community that can be sustained by a pipeline of new adults entering the school each year. Some examples of creative partnerships, local organizations that have specific goals to support enriched education experiences, and nonprofits that align with education-based goals are non-profits and service organizations. Schools may benefit from community organizations that wish to offer training sessions on health and nutrition, art education, or the role of pets in teaching responsibility. Finally, let community organizations reach out to students and families interested in taking full advantage of educational opportunities. To ensure that community partnerships are productive and sustainable, school teams must take the time to think wisely about how to plan and implement partnerships. Partnership development requires initial steps of inquiry, design, and leadership development. Schools need to get input from the community on its willingness to partner and its ideas for partnerships. Partnerships must be formulated carefully so that their implementation is clear and not overwhelming for busy educators. Community partners are best when they receive adequate training and structure for their roles within schools and tailor their involvement to a grade level or theme, rather than try to implement a wide-ranging, district-level initiative [17, 18].

Technology in Preparedness

Experts in technology and education have long debated the role of educational technology in today's classrooms. It is only in the past few decades that a strong infusion of technology into education has begun in earnest. With this infusion, an increase in research into the effects of technology on education has come about; much of it is dealing with technology's role in instructional delivery, learning environment, research, and the creation of educational materials. Less has been said about technology's role in student achievement and teacher preparation—how technology as a tool can be used to attain goals. This area is where the most research is needed and where educational technology professionals should focus their efforts. Many states are passing more stringent standards-based expectations for teacher and student performance. Increasingly harsher sanctions are placed on schools that do not measure up to state standards. Officials at local, state, and federal levels of government are paying attention to America's unsatisfactory progress in education. In an effort to rectify the situation, funds are being directed toward increased teacher salaries, expanded resources, improved curricula, and the enhancement of educational technology. These recent efforts to reform education should have a positive impact upon student achievement. Research shows that above all other factors, the teacher accounts for student achievement. Educational technology can provide teachers, especially those in under-resourced schools, with the information and tools needed to boost student achievement. To take advantage of

current technology, teachers must have the ability and presence of mind to integrate educational technology into the curriculum to support learning [19, 20].

Evaluating Preparedness Efforts

Preparedness efforts are self-initiated programs designated to ensure that necessary measures are being taken to be appropriately prepared for a given incident. Assessment of preparedness efforts occurs both formally and informally within organizations on a continual basis and includes questions about what actions are taken, if action has become part of day-to-day operations, what still needs to be accomplished, and what elements of the initiative have been successful or unsuccessful. Assessing results allows for the identification of successful intervention components and an understanding as to whether or not objectives have been met. The evaluation process should identify and address possible barriers to completion and identify needs for program modifications. Ideally, assessment efforts should take place prior to program development as well. This would allow agencies to discover gaps in knowledge and practice and specifically tailor educational efforts. In order to be effective, assessment efforts are usually multilevel. Broad community needs assessments can be done to determine an overall picture of what community members know and do concerning personal preparedness. Interviews or focus groups would provide qualitative data on areas where the community is lacking in knowledge and what barriers exist to obtaining preparedness goals. On a more specific level, surveys may be given to participants before and after attending preparedness education in order to gauge the depth of knowledge gained and behavior changes as a result of attendance. The situation described in this paper was prompted by unanticipated events occurring before any assessment efforts had taken place. Workshops had been presented, but little information was available about what participants understood and what measures were being taken in regard to personal preparedness. Even fewer insights were available as to whether education made any difference at all. This situation begged the question: What do members of the general public in East Texas know about emergency preparedness, and does education on the topic change what they do? This question necessitated a focus on more broad and general needs assessment efforts in which personal preparedness is defined by assessment efforts to gather qualitative information [21, 22].

Case Studies of Successful Preparedness Programs

"Great ideas need landing gear as well as wings. They need to be grounded in a system that enables them to grow and spread." Educators, parents, and students face significant challenges such as terrorist attacks, pandemics, wildfires, and other emergencies. Kansas State University's College of Technology and Aviation fosters a "culture of preparedness." Staff developed a rapid damage appraisal system for tornadoes and enhanced emergency readiness. They educate staff on tornado preparedness, provide first-aid kits, and create "What If" videos addressing tornadoes, workplace violence, and fire alarms. This culture promotes vigilance, altering how staffs perceive potential dangers. Students actively seek to mitigate risks around campus. Reports have highlighted the need to address workplace violence and empower students to reduce risks. Education, public service announcements, and videos on school violence need wider dissemination. Kansas State University exemplifies educational preparedness; the Virginia Tech tragedy highlighted the need for mental health professionals at universities, leading to increased campus support and updated emergency plans. Funded drills created realistic disaster scenarios that shifted institutional character. Ten years later, the initial awareness of danger has waned, with responses diminished to online resources. Effective preparedness programs extend to lower-severity emergencies and involve K-12 students. A culture of rules in educational settings breeds lasting consequences. Scenario-based training for employees enables them to mentor students, spreading preparedness to homes and communities. K-12 teachers, trained through Fire Department resources, teach evaluation and response strategies for emergencies, making survival lessons part of family discussions. As societal challenges grow, awareness faces a critical test [23, 24].

Challenges in Implementing Preparedness

Culturally relevant interventions address barriers against effective engagement while highlighting the benefits of preparedness in reducing disaster impacts and promoting recovery. Key efforts involve disseminating reliable preparedness knowledge through schools, media, and community outreach programs. Utilizing COOP development, family scribes, and tailored video campaigns ensures readiness education across all ages. Ownership in programs should reflect a mutual information model with school training approvals for prudent advisement. While preparedness is critical, attention must also be given to consumer trust regarding tornado myths and safety in schools. Community assurance fosters participation; social change necessitates time. Enhancing adaptability is vital for establishing a comprehensive community risk reduction program that leverages stakeholder strengths and emphasizes educational development as a core theme. Engaging media through annual vetting encourages proactive information sharing. Implementing e-learning modules can reinforce education on disaster preparedness,

facilitating long-term information retention. Families should be involved through disaster-themed enrichment activities, establishing effective communication between schools and homes for mutual feedback. Baseline assessments can reveal attitudes toward preparedness and preferred information methods. Audiences can be categorized based on the assessors' expertise, their disaster knowledge, and the factors that influence engagement. Continuous research on COPE strategy dissemination should consider outreach customization for distinct audiences, ensuring the relevance of messaging. Identifying effective spread dynamics will enhance the application of hopeful strategies. Additionally, understanding unique outreach constraints for different agents will optimize engagement efforts [25, 26].

Future Directions for Preparedness in Education

Critical progress will be needed in the future to expand safety implementations and boost the school preparedness framework initiatives that deal with education institutions warranting disaster preparedness. Challenges in the nascent steps taken (or lack thereof) should undergo even better recognition in educational priorities. Systematic hurdles hampering the advancement of preparedness in education and plans to address them are equally important. Taking each of these needed considerations in turn, a checklist of to-do's for education and disaster preparedness as of 2024, which would help set a blueprint for improvement, is recommended. The emphasis of many recent papers is to call for national and international systems to make education a priority in planning. Though education will always be a late-in-line priority in the domestic emergency response to disasters, at the tepid progress rate made since it will still be a very low priority by 2032 in political decisions. Even those few jurisdictions in the U.S. that have advances in education preparedness and outreach have difficulty making it a focus for all possible disaster circumstances. Focus and visibility for education in emergency situations need to be champions, support by widespread and vocal coalitions, and funding for national prioritization needs to exist in order to get champions' attention. The provision of any credible and deep-school preparedness framework (replete with checklists or "system workouts") is absent. Mechanisms at the district and school levels dealing with individual mitigation responses must be shared nationally as a first step before consideration of greater magnitudes of disasters. Ideal practices would include an invitation for near-complete information exchange, substantial funding for standardized evaluation of readiness, and focused professional development for administration. More cheerily, further amelioration of safety provisions would warrant constant innovation preferably continuing the creation and sharing of new checklists based on experiences of these automatically better-prepared locations, so that lagging areas can adjust the old or any found prep plans to make them acclimatized to their own cultures [27, 28].

CONCLUSION

Creating and sustaining a culture of preparedness in education is not solely about generating emergency plans or conducting periodic drills; it is about embedding readiness into the very fabric of educational practice, governance, and values. As this paper demonstrates, preparedness in education must be a collective, interdisciplinary, and inclusive endeavor that spans from early childhood education to higher learning. It requires coordination among educators, students, administrators, community members, and policymakers. Risk assessment, staff and student training, curricular integration, and technology use must be tailored yet standardized enough to ensure cohesion and scalability. Through a grounded understanding of local risks and an informed engagement with global standards, schools can become resilient institutions capable of responding to and recovering from crises. Ultimately, fostering a preparedness culture means nurturing future citizens who are not only informed and safe but also critically engaged and proactive in the face of uncertainty.

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